

Serial No. 10/689,932

Docket No. GCTS-0039

REMARKS

Claims 1-16, 18 and 20-24 are pending. By this Amendment, claims 1-2, 5-9, 12-15 and 20-21 are amended and claims 17 and 19 are canceled without prejudice or disclaimer. Reconsideration in view of the above amendments or the following remarks is respectfully requested.

A. The Office Action rejects claims 22-24 under 35 U.S.C. §112, first paragraph. With respect to claims 22 and 24, Applicants respectfully submit that the specification, claims and drawings including at least Figs. 3 and 5 describe the asserted features such that one of ordinary skill in the art would know the inventors had possession of the claimed invention.

With respect to claim 23, Applicants respectfully submit that the specification, claims and drawings including at least paragraph 37 describe the asserted features such that one of ordinary skill in the art would know the inventors had possession of the claimed invention.

Withdrawal of the rejection to claims 22-24 under 35 U.S.C. §112 is respectfully requested.

B. The Office Action rejects claim 2 under 35 U.S.C. §112, second paragraph. With respect to claim 2, Applicants respectfully submit that above amendments obviate the grounds for the rejection. Withdrawal of the rejection to claim 2 under 35 U.S.C. §112 is respectfully requested.

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C. The Office Action rejects claims 1-3, 5-8, 11-12 and 14-19 under 35 U.S.C. §102(e) over US Patent No. 7,136,431 to Shi et al. (hereafter "Shi"). The Office Action rejects claims 4 and 21-24 under 35 U.S.C. §103(a) over Shi, rejects claims 9-10 under 35 U.S.C. §103(a) over Shi and US Publication No. 2003/0012313 to Husted et al. (hereafter "Husted") and rejects claims 13 and 20 under 35 U.S.C. §103(a) over Shi and US Patent No. 6,987,794 to Kohno et al. (hereafter "Kohno"). Since the references, individually or in combination, fail to disclose or suggest features of the claims, the rejections are respectfully traversed.

Applicants respectfully submit that at least features of a method including using a second down-conversion mixing to down-convert said intermediate frequency signals to obtain a desired signal that is centered at DC and translate a DC-offset to a carrier leakage signal at a second LO frequency not less than a channel width and combinations thereof as recited in claim 14 are not disclosed or suggested by references or their combination.

Applicants respectfully submit that Shi teaches away from recited features because Shi discloses that DC filtering is performed in a digital signal processor, and thus, a receiver front end is not fully analog. See paragraph 12 of the present specification and column 6, lines 57-61; column 9, lines 42-47 and Fig. 7 (digital receiver processing module 64) of Shi. Further, Shi discloses DC filtering by attempting to remove DC offset prior to mixing modules 142 and 144. See fine (and coarse) DC offset adjustment using summation modules 136 and 138 of Shi. In contrast, claim 14 recites at least features of using a second down-conversion mixing to down-convert said intermediate frequency signals to translate a DC-offset to a carrier leakage signal at a

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second LO frequency not less than a channel width. Further, Applicants respectfully submit that Shi does not teach or suggest any modification to its disclosure that would result in features and combinations thereof recited in claim 14. In addition, Applicants respectfully submit that Husted and/or Kohno each do not disclose or suggest, and thus, Shi, Husted and Kohno, individually or in combination, would not result in features and combinations thereof recited in claim 14.

For at least the reasons set forth above, Applicants respectfully submit that claim 14 defines patentable subject matter. Claim 1 defines patentable subject matter for at least reasons similar to claim 14. Claims 17 and 19 are canceled without prejudice or disclaimer. Claims 2-13, 15-16, 18 and 20-24 respectively depend from claims 1 and 14, and therefore, also define patentable subject matter for at least that reason as well as their additionally recited features. Withdrawal of the rejection of claims 1-3, 5-8, 11-12 and 14-19 under 35 U.S.C. §102 and claims 4, 9-10, 13 and 20-24 under 35 U.S.C. §103 is respectfully requested.

CONCLUSION


Should the Examiner have any questions regarding the above-identified application, the Examiner is invited to contact the undersigned attorney, Carl R. Wesolowski, at the telephone number listed below.

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To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 50-4235 and please credit any excess fees to such deposit account.

Respectfully submitted,
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